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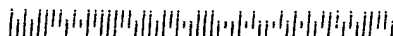
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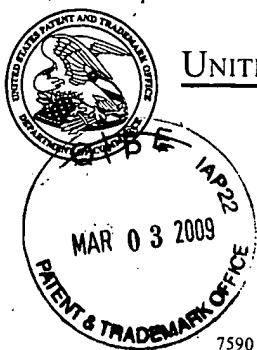
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NOTICE OF ALLOWANCE AND FEE(S) DUE

Philmore H. Colburn II
Cantor Colburn LLP
55 Griffin Road South
Bloomfield, CT 06002

7590

02/19/2009

EXAMINER

TRUONG, CAMQUY

ART UNIT

PAPER NUMBER

2195

DATE MAILED: 02/19/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,405	11/25/2003	Frank William Brice JR.	POU920030188US1	9082
TITLE OF INVENTION: MEMORY MAPPED INPUT/OUTPUT VIRTUALIZATION				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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02/19/2009

Philmore H. Colburn II
Cantor Colburn LLP
55 Griffin Road South
Bloomfield, CT 06002

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(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/723,405

11/25/2003

Frank William Brice JR.

POU920030188US1

9082

TITLE OF INVENTION: MEMORY MAPPED INPUT/OUTPUT VIRTUALIZATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/19/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, CAMQUY	2195	718-001000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,405	11/25/2003	Frank William Brice JR.	POU920030188US1	9082

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EXAMINER

TRUONG, CAMQUY

ART UNIT	PAPER NUMBER
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2195

DATE MAILED: 02/19/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1326 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1326 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/723,405	BRICE ET AL.	
	Examiner	Art Unit	
	CAMQUY TRUONG	2195	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 9 January 2009 and terminal disclaimer.

2. ☒ The allowed claim(s) is/are 1-9, 12-19 now renumbered as claims 1-17.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____
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	/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195
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Interview Summary	Application No.	Applicant(s)	
	10/723,405	BRICE ET AL.	
	Examiner	Art Unit	
	CAMQUY TRUONG	2195	

All participants (applicant, applicant's representative, PTO personnel):

(1) CAMQUY TRUONG. (3) _____.

(2) Sean F. Sullivan (4) _____.

Date of Interview: 08 February 2009.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: _____.

Claim(s) discussed: 1, 18 and 19.

Identification of prior art discussed: _____.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant agreed to amend the claims in accordance to examiner amendment.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

	/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195
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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Sean F. Sullivan (Registration number: 38,328) on 2/9/09.
3. The claims have been amended as follows:
 1. A method of performing memory mapped input output operations to an alternate address space comprising:
 - establishing a first instruction directed to a first memory mapped input output alternate address space associated with an adapter to store data in accordance with resource address designation, said resource address designation configured for decomposition thereof such that said first memory mapped input output alternate address space associated with said adapter is accessible;
 - establishing a second instruction directed to said first memory mapped input output alternate address space associated with an adapter to load data in accordance with said resource address designation;

allocating, through a host program, at least one of a real resource and a virtual resource associated with said first memory mapped input output alternate address space to a guest program started by the host program;

ensuring that a process executed by the guest program corresponds to said at least one of the real resource and the virtual resource allocated to the guest program, in a manner that is not visible to the quest program; and

wherein said process issues at least one of said first instruction and said second instruction and thereby causes execution of at least one of said store and load with said first memory mapped input output alternate address space.

2. The method of Claim 1 further comprising allocating, through the host program on behalf of the guest program, an error storage area associated with said resource.

3. The method of Claim 1 further including virtualization of a resource of one of said adapter to store data and said adapter to load data to a second-level guest process.

4. The method of Claim 3 wherein said virtualization of a resource is accomplished and distinguished from a real resource by partitioning a range of resource identifiers into a plurality of portions;

wherein at least one portion corresponds to a virtual resource; and

wherein when at least one of said first instruction and said second instruction specifies a resource identifier corresponding to said at least one portion, the guest program issuing instruction exits, and the host program resumes execution in order to emulate said at least one of said first instruction and said second instruction originally issued by the guest program.

5. The method of claim 3 wherein said virtualization provides direct access to at least one of a real resource and a virtual resource of an adapter by a problem-state second -level guest process.

6. The method of claim 5 wherein said access is accomplished without involvement from a kernel of a guest operating system; and permits said process operating in a problem-state maximum efficiency in performing the primary input output capabilities provided by said adapter and the associated resources allocated to said process.

7. The method of claim 3 further including separating another process operating under said operating system; wherein an separating is established on a per-resource basis during said allocating and is enforced during execution of at least one of said first and said second instructions.

8. The method of claim 1 wherein said first alternate address space is not a portion of the main address space from which said process is executing.

9. The method of claim 1 wherein said process issuing said at least one of said first instruction and said second instruction and thereby causes execution of at least one of said store and load with said first alternate address space operates in a problem state of a machine.

10-11. Cancelled

12. The method of claim 1 wherein at least one of said first instruction and said second instruction is executed without supervisory state intervention.

13. The method of claim 1 wherein said first instruction and said second instruction are semiprivileged instructions that may be executed in a problem state, wherein ownership of a specified resource of a specified adapter determines a privilege required for execution of said semiprivileged instructions.

14. The method of claim 1 further including a second memory mapped input output alternate address space associated with a second adapter.

15. The method of claim 14 wherein a storage location in said first memory mapped input output alternate address space maps to a different address than the same location in said second memory mapped input output alternate address space.

16. The method of claim 1 wherein said adapter includes address spaces as partitions of said alternate address space.

17. The method of claim 1 wherein an address space is governed by at least one of a resource type and storage area types associated with said adapter.

18. Storage medium encoded with a computer-readable computer program code, said code including instructions, when executed, cause a computer to implement a method of performing memory mapped input output operations to an alternate address space, the method comprising:

establishing a first instruction directed to a first memory mapped input output alternate address space associated with an adapter to store data in accordance with resource address designation, said resource address designation configured for decomposition thereof such that said first memory mapped input output alternate address space associated with said adapter is accessible;

establishing a second instruction directed to said first memory mapped input output alternate address space associated with an adapter to load data in accordance with said resource address designation;

allocating, through a host program, at least one of a real resource and a virtual resource associated with said first memory mapped input output alternate address space to a guest program started by the host program;

ensuring that a process executed by the guest program corresponds to said at least one of the real resource and the virtual resource allocated to the guest program, in a manner that is not visible to the quest program; and

wherein said process issues at least one of said first instruction and said second instruction and thereby causes execution of at least one of said store and load with said first memory mapped input output alternate address space.

19. A system for performing memory mapped input output operations to an alternate address space comprising:

a processor;

a means for establishing a first instruction directed to a first memory mapped input output alternate address space associated with an adapter to store data in accordance with resource address designation, said resource address designation configured for decomposition thereof such that said first memory mapped input output alternate address space associated with said adapter is accessible;

a means for establishing a second instruction directed to said first memory mapped input output alternate address space associated with an adapter to load data in accordance with said resource address designation;

a means for allocating, through a host program, at least one of a real resource and a virtual resource associated with said first memory mapped input output alternate address space to a guest program started by the host program;

a means for ensuring that a process executed by the guest program corresponds to said at least one of the real resource and the virtual resource allocated to the guest program, in a manner that is not visible to the guest program; and

wherein said process issues at least one of said first instruction and said second instruction and thereby causes execution of at least one of said store and load with said first memory mapped input output alternate address space.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAMQUY TRUONG whose telephone number is (571)272-3773. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng Ai An can be reached on (703)305-9678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

Camquy Truong

Notice of References Cited	Application/Control No. 10/723,405		Applicant(s)/Patent Under Reexamination BRICE ET AL.	
	Examiner CAMQUY TRUONG		Art Unit 2195	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,598,144	07-2003	Bailey et al.	711/203
*	B	US-4,916,608	04-1990	Shultz, Steven S.	718/104
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.